

Crops

FIELD CROPS

The 2003 crop year got off to a slow start due to extremely wet field conditions during the planting season. This was the third time in the last four years that New York farmers had difficulty getting their crops in the ground. Once again, many thousands of acres went unplanted or were planted to alternative crops to make up for projected forage deficiencies. Wet weather continued throughout most of the summer, making haying activities difficult but providing ample moisture for crops such as corn, soybeans, potatoes, and dry beans.

GRAIN CORN

New York production is estimated at 53.2 million bushels, up 19 percent from 2002. Area for harvest totaled 440,000 acres, down 4 percent from a year ago. Yields averaged a record high 121 bushels per acre, up 24 bushels from last year. Production was valued at \$149 million, up 16 percent from 2002.

SILAGE CORN

Corn cut for silage totaled 9.63 million tons, an increase of 25 percent from the previous year's production. Acres harvested for silage totaled 550,000 acres, unchanged from a year earlier. Yields are estimated at a record high 17.5 tons per acre, up 3.5 tons from 2002. Value of production totaled \$252 million, up 27 percent from last year.

SOYBEANS

The 2003 soybean crop was estimated at 4.83 million bushels, 5 percent above last year's production. Area harvested, at 138,000 acres, was down 4 percent from a year ago. Yields averaged 35 bushels per acre, up 3 bushels from a year earlier. The value of the 2003 soybean crop was set at \$33.8 million, up 25 percent from a year ago.

WHEAT

Production totaled 6.36 million bushels, down 7 percent from the previous year. Harvested acreage, at 120,000 acres, was up 2 percent from 2002. Wheat yields averaged 53 bushels per acre, down 5 bushels from last year. The crop was valued at \$13.6 million, down 41 percent from a year ago.

OATS

Production, at 4.41 million bushels, was up 6 percent from the previous year. Area harvested, at 70,000 acres, was up 8 percent from 2002. The average yield, at 63 bushels per acre, was down 1 bushel from last year. Production was valued at \$7.72 million, down 3 percent from 2002.

BARLEY

Production of barley in New York totaled 600,000 bushels, up 28 percent from a year earlier. Acreage harvested for grain totaled 12,000 acres, up 2,000 acres from 2002. The average yield per acre, at 50 bushels, was up 3 bushels from last year. Production was valued at \$1.20 million, up 30 percent from the 2002 value.

ALL DRY HAY

Production was placed at 3.68 million tons, up 2 percent from last year's 3.62 million tons. Acreage harvested for dry hay during 2003 increased 8 percent to 1.85 million acres. Yield, at 1.99 tons per acre, was 6 percent below a year ago. Value of production, at \$454 million, was up 20 percent from a year ago.

ALFALFA DRY HAY

New York production of alfalfa dry hay was estimated at 1.68 million tons, up 10 percent from last year's crop of 1.53 million tons. Area harvested, at 600,000 acres, was 2 percent below last year. Yields averaged 2.80 tons per acre, up 12 percent from 2002. Production was valued at \$240 million, up 23 percent from 2002.

POTATOES

Production totaled 6.51 million hundredweight (cwt.), up 18 percent from the 5.50 million cwt. produced in 2002. Harvested acreage totaled 21,700 acres, down 300 acres from last year. Yields averaged a record high 300 cwt. per acre, up 50 cwt. from a year ago. Value of production, at \$61.8 million, was down 5 percent from 2002.

DRY BEANS

Production totaled 446,000 cwt., up 34 percent from 2002. Acres harvested totaled 24,000 acres, down 500 acres from a year earlier. The average yield, at a record high 1,860 pounds per acre, was up 500 pounds from last year. The 2003 crop was valued at \$9.99 million, up 35 percent from 2002.

2003 CROP SUMMARY



APRIL

Fieldwork was off to a slow start due to wet fields, but drying weather late in the month encouraged planting. Oat seeding reached nearly one-third complete and corn planting got underway. Spring pruning was in full swing in apple orchards. Onion planting began in Orange County. Warmer weather enabled pastures to start greening up.

MAY

Fieldwork progressed rapidly early in the month but was slowed by wetness toward the end of May. Lake Erie grapes were hit with freezing temperatures in early May and sustained damage. Corn planting was in full swing and reached almost two-thirds complete, soybeans one-quarter complete, potatoes one-half complete, and oat seeding neared completion. Vegetable planting gained momentum. Soil moisture averaged adequate to surplus.

JUNE

Wet, wool weather during the majority of the month delayed fieldwork and slowed crop growth. Good weather finally covered the state during the last week allowing planting to progress rapidly. Corn advanced to 90 percent planted and soybeans were three-quarters planted. The first cutting of alfalfa reached 75 percent finished. Strawberry and early cabbage harvest began. Long Island vineyards were in full bloom. Coolness delayed grape blooming in the Finger Lakes about one week.

JULY

Hot weather proved beneficial for crops and allowed fieldwork to progress without interruption. Oat harvest was nearly one-third complete and wheat combining reached the half-way mark. The second cutting of alfalfa was 65 percent complete and the third cutting was underway. The tart cherry harvest was in full swing and progressed to over one-half finished. Vegetable harvest picked up momentum.

AUGUST

Hot weather continued through August and pushed crops to maturity. Oat harvest progressed to 80 percent finished, the second cutting of alfalfa was finished and the third cutting reached 20 percent complete. Potato digging was active. The tart and sweet cherry harvest was finished, the peach harvest neared half complete, and apple picking started. Onion harvest was underway while tomato picking was over half finished and snap bean harvest neared three-quarters complete.

SEPTEMBER

Harvesting operations continued in high gear as weather conditions were mostly cooperative. Harvesting of oats and winter wheat was completed early in the month. Silage corn harvest progressed to one-third finished, alfalfa third cutting wound down while potato digging was two-thirds complete, dry beans one-third harvested and soybean harvest gained momentum. Apple picking was about 40 percent finished and grapes 15 percent harvested. Most vegetables were 80 to 85 percent harvested. Pumpkin and squash harvests began. Peach and pear picking neared completion.

OCTOBER

Cool weather moved in and brought freezing temperatures to most areas. The silage corn harvest was completed and growers made grain harvest their number one priority. Soybean and dry bean harvests were in full swing. Potato digging was completed. Apple picking wound down. Grape harvest on Long Island was at peak, but harvest in the Lake Erie region was delayed due to low sugar content. Pumpkin harvest peaked and squash and cabbage continued to move to market.

Table 8. **FIELD CROPS:** Acres, Yield, Production, and Value, New York, 1994-2003

Crop and Year	Planted	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<i><u>1,000 acres</u></i>	<i><u>1,000 acres</u></i>	<i><u>Bushels</u></i>	<i><u>1,000 bushels</u></i>	<i><u>Dollars per bu.</u></i>	<i><u>1,000 dollars</u></i>
WHEAT						
1994	120	115	53.0	6,095	3.20	19,504
1995	130	125	55.0	6,875	4.20	28,875
1996	160	150	43.0	6,450	4.15	26,768
1997	135	130	56.0	7,280	3.35	24,388
1998	140	130	54.0	7,020	2.13	14,953
1999	130	125	65.0	8,125	2.05	16,656
2000	150	140	53.0	7,420	1.94	14,395
2001	125	120	53.0	6,360	2.64	16,790
2002	120	118	58.0	6,844	3.28	22,448
2003	130	120	53.0	6,360	2.10	13,350
OATS						
1994	130	110	64.0	7,040	1.42	9,997
1995	110	90	58.0	5,220	1.65	8,762
1996	85	70	55.0	3,850	2.10	8,085
1997	100	90	65.0	5,850	1.70	9,945
1998	115	105	62.0	6,510	1.41	9,179
1999	100	70	68.0	4,760	1.45	6,902
2000	80	60	65.0	3,900	1.40	5,460
2001	95	80	69.0	5,520	1.62	8,942
2002	75	65	64.0	4,160	1.92	7,987
2003	85	70	63.0	4,410	1.75	7,718
RYE						
1994	30	8	31.0	248	2.25	558
1995	42	9	35.0	315	2.25	709
1996	49	8	28.0	224	3.00	672
1997	40	7	33.0	231	2.10	485
1998	50	15	35.0	525	2.00	1,050
1999	45	15	38.0	570	1.50	855
2000	40	7	40.0	280	2.00	560
2001	35	7	27.0	189	2.00	378
2002	40	10	32.0	320	2.00	640
2003	35	8	33.0	264	2.00	528
BARLEY						
1994	12	9	61.0	549	1.75	961
1995	12	10	65.0	650	1.80	1,170
1996	16	12	54.0	648	3.05	1,976
1997	16	13	54.0	702	2.00	1,404
1998	18	16	50.0	800	1.30	1,040
1999	19	17	57.0	969	1.35	1,308
2000	12	10	58.0	580	1.65	957
2001	15	12	51.0	612	1.60	979
2002	11	10	47.0	470	1.96	921
2003	14	12	50.0	600	2.00	1,200

Table 8. **FIELD CROPS:** Acres, Yield, Production, and Value, New York, 1994-2003 (*Continued*)

Crop and Year	Planted ^{1/}	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<u>1,000 acres</u>	<u>1,000 acres</u>	<u>Bushels</u>	<u>1,000 bushels</u>	<u>Dollars per bu.</u>	<u>1,000 dollars</u>
SOYBEANS						
1994	70	68	41.0	2,788	5.00	13,940
1995	66	63	38.0	2,394	6.20	14,843
1996	76	75	35.0	2,625	6.35	16,669
1997	105	102	37.0	3,774	6.00	22,644
1998	100	97	41.0	3,977	5.10	20,283
1999	130	128	37.0	4,736	4.20	19,891
2000	135	132	33.0	4,356	4.55	19,820
2001	160	158	33.0	5,214	4.55	23,724
2002	145	144	32.0	4,608	5.85	26,957
2003	140	138	35.0	4,830	7.00	33,810
CORN FOR GRAIN						
1994	1,110	570	116.0	66,120	2.65	181,366
1995	1,130	620	105.0	65,100	3.85	246,593
1996	1,150	630	103.0	64,890	2.98	193,372
1997	1,170	600	110.0	66,000	2.62	172,920
1998	1,130	580	114.0	66,120	2.21	146,125
1999	1,150	590	101.0	59,590	2.24	133,482
2000	980	450	98.0	44,100	2.35	103,635
2001	1,030	540	105.0	56,700	2.51	142,317
2002	1,020	460	97.0	44,620	2.87	128,059
2003	1,000	440	121.0	53,240	2.80	140,072
CORN SILAGE						
			<u>Tons</u>	<u>1,000 tons</u>	<u>Dollars per ton</u>	
1994	-	540	15.8	8,532	22.70	193,676
1995	-	505	14.0	7,070	24.50	173,215
1996	-	510	15.5	7,905	25.80	203,949
1997	-	560	15.0	8,400	34.40	288,960
1998	-	550	16.0	8,800	25.30	222,640
1999	-	560	16.0	8,960	25.90	232,064
2000	-	530	14.0	7,420	25.60	189,952
2001	-	485	16.0	7,760	26.40	204,864
2002	-	550	14.0	7,700	25.70	197,890
2003	-	550	17.5	9,625	26.20	252,175
DRY BEANS ^{2/}						
			<u>Lbs.</u>	<u>1,000 cwt.</u>	<u>Dollars per cwt.</u>	
1994	39	38.5	1,520	585	20.30	11,876
1995	34	33.0	1,630	538	18.10	9,738
1996	30	29.0	1,300	377	27.00	10,179
1997	44	43.5	1,560	679	20.60	13,987
1998	31	30.0	1,420	426	25.30	10,778
1999	31	30.2	1,370	414	19.40	8,032
2000	25	24.5	1,460	358	18.80	6,730
2001	23	22.3	870	194	24.70	4,792
2002	25	24.5	1,360	333	22.20	7,393
2003	25	24.0	1,860	446	22.40	9,990

^{1/} Complete utilization of corn acreage planted is shown on page 22. Corn planted acreage includes corn for grain, silage, forage, and abandoned acres.

^{2/} Production by major varieties is shown on page 21.

Table 8. **FIELD CROPS:** Acres, Yield, Production, and Value, New York, 1994-2003 (*Continued*)

Crop and Year	Planted	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>Tons</i>	<i>1,000 tons</i>	<i>Dollars per ton</i>	<i>1,000 dollars</i>
ALFALFA HAY						
1994	-	620	2.95	1,829	93.00	170,097
1995	-	650	2.60	1,690	94.00	158,860
1996	-	640	2.70	1,728	99.50	171,936
1997	-	640	2.60	1,664	110.00	183,040
1998	-	600	2.45	1,470	105.00	154,350
1999	-	550	2.30	1,265	121.00	153,065
2000	-	450	2.40	1,080	119.00	128,520
2001	-	570	2.80	1,596	119.00	189,924
2002	-	610	2.50	1,525	128.00	195,200
2003	-	600	2.80	1,680	143.00	240,240
OTHER HAY						
1994	-	1,040	2.05	2,132	75.00	159,900
1995	-	950	1.85	1,758	72.00	126,576
1996	-	870	2.00	1,740	74.50	129,630
1997	-	890	2.00	1,780	80.50	143,290
1998	-	800	2.05	1,640	82.00	134,480
1999	-	950	1.80	1,710	90.50	154,755
2000	-	1,050	1.90	1,995	93.50	186,533
2001	-	1,100	1.80	1,980	84.50	167,310
2002	-	1,100	1.90	2,090	87.50	182,875
2003	-	1,250	1.60	2,000	107.00	214,000
ALL HAY ^{1/}						
1994	-	1,660	2.39	3,961	84.50	329,997
1995	-	1,600	2.16	3,448	85.50	285,436
1996	-	1,510	2.30	3,468	87.00	301,566
1997	-	1,530	2.25	3,444	94.00	326,330
1998	-	1,400	2.22	3,110	93.00	288,830
1999	-	1,500	1.98	2,975	108.00	307,820
2000	-	1,500	2.05	3,075	NA	315,053
2001	-	1,670	2.14	3,576	NA	357,234
2002	-	1,710	2.11	3,615	NA	378,075
2003	-	1,850	1.99	3,680	125.00	454,240

^{1/} All hay price is based on weighted sales, not production.

Table 9. **POTATOES:** Acreage, Yield, Production, and Disposition, Sales, and Value,
New York, 1994-2003

Crop Year	Planted	Harvested	Yield per acre	Production	Used on farms where grown ^{1/}	Sold	Marketing year average price	Value	
								Production	Sales
	<i>Acres</i>	<i>Acres</i>	<i>Cwt.</i>	----- <i>1,000 cwt.</i> -----		<i>Dollars per cwt.</i>		<i>1,000 dollars</i>	
1994	29,100	28,600	273	7,805	548	7,257	9.75	76,190	70,814
1995	28,000	27,500	270	7,425	445	6,980	7.45	55,316	52,001
1996	27,000	26,500	280	7,420	468	6,952	7.30	54,166	50,750
1997	26,500	26,000	275	7,150	454	6,696	8.75	62,563	58,590
1998	27,600	27,000	270	7,290	440	6,850	9.35	68,162	64,048
1999	26,000	25,500	265	6,758	418	6,340	9.00	60,822	57,060
2000	22,000	21,300	280	5,964	514	5,450	8.70	51,887	47,415
2001	23,500	23,300	255	5,942	602	5,340	9.90	58,826	52,866
2002	22,500	22,000	250	5,500	450	5,050	11.80	64,900	59,590
2003	22,200	21,700	300	6,510	<u>2/</u>	<u>2/</u>	9.50	61,845	<u>2/</u>

^{1/} Includes feed and seed used on farms where produced and shrinkage during storage.

^{2/} Available September 23, 2004.



Table 10. **POTATOES:** Stocks Held by Growers and Local Dealers,
New York, 1994-2003 ^{1/}

Crop Year	December 1	January 1	February 1	March 1	April 1
	<i>1,000 cwt.</i>				
1994	4,200	3,000	1,800	<u>2/</u>	<u>2/</u>
1995	3,400	2,500	1,500	900	400
1996	3,700	2,400	1,400	800	350
1997	3,600	2,500	1,500	800	400
1998	3,400	2,300	1,500	800	350
1999	3,500	2,500	1,800	1,300	700
2000	2,700	1,900	1,400	1,000	400
2001	2,400	1,500	1,000	600	300
2002	2,400	1,800	1,100	600	220
2003	3,500	2,800	2,400	1,500	750

^{1/} Total stocks consist of production less total disappearance to date. Disappearance includes all sales for all purposes, all potatoes eaten or fed on farms where produced and all losses to date through shrinkage, decay, dumping, etc.

^{2/} Not published to avoid disclosure of individual operations.

Table 11. **DRY BEANS:** Acreage, Yield, Production, and Off-Farm Stocks, by Class,
New York, 1994-2004

Crop Year	Acres		Yield per acre	Production
	Planted	Harvested		
	<i>1,000 acres</i>		<i>Pounds</i>	<i>1,000 cwt.</i>
RED KIDNEY				
<u>Light</u> 1994	21.0	20.5	1,480	303
1995	19.0	18.0	1,620	292
1996	16.5	16.0	1,270	203
1997	25.0	24.5	1,580	387
1998	16.0	15.5	1,350	209
1999	17.7	17.5	1,290	225
2000	15.0	14.6	1,430	209
2001	13.3	13.1	850	112
2002	15.0	14.7	1,300	191
2003	14.1	13.4	1,890	253
<u>Dark</u> 1994	5.0	5.0	1,460	73
1995	4.0	4.0	1,600	64
1996	3.5	3.0	1,270	38
1997	2.0	2.0	1,650	33
1998	2.0	2.0	1,600	32
1999	2.0	2.0	1,350	27
2000	1.9	1.8	1,280	23
2001	1.2	1.2	830	10
2002	2.0	2.0	1,350	27
2003	1.1	1.1	1,820	20
BLACK TURTLE				
1994	9.0	9.0	1,620	146
1995	8.0	8.0	1,690	135
1996	7.0	7.0	1,430	100
1997	13.0	13.0	1,530	199
1998	10.5	10.0	1,470	147
1999	9.5	9.0	1,570	141
2000	5.2	5.2	1,500	78
2001	6.7	6.3	940	59
2002	6.0	5.8	1,570	91
2003	8.2	7.9	1,800	142
OTHER CLASSES				
1994	4.0	4.0	1,580	63
1995	3.0	3.0	1,570	47
1996	3.0	3.0	1,200	36
1997	4.0	4.0	1,500	60
1998	2.5	2.5	1,520	38
1999	1.8	1.7	1,240	21
2000	2.9	2.9	1,660	48
2001	1.8	1.7	760	13
2002	2.0	2.0	1,200	24
2003	1.6	1.6	1,940	31
ALL CLASSES				
1994	39.0	38.5	1,520	585
1995	34.0	33.0	1,630	538
1996	30.0	29.0	1,300	377
1997	44.0	43.5	1,560	679
1998	31.0	30.0	1,420	426
1999	31.0	30.2	1,370	414
2000	25.0	24.5	1,460	358
2001	23.0	22.3	870	194
2002	25.0	24.5	1,360	333
2003	25.0	24.0	1,860	446

Table 12. **CORN:** Acreage Utilization, New York, 1994-2003

Crop Year	Total acres planted	Acres harvested for					
		All Grain	Dry Shelled	High Moisture Shelled	High Moisture Ground Ear	Silage	Forage and abandoned
		<i>1,000 acres</i>					
1994	1,110	570	420	120	30	540	0
1995	1,130	620	460	130	30	505	5
1996	1,150	630	435	175	20	510	10
1997	1,170	600	450	120	30	560	10
1998	1,130	580	435	115	30	550	0
1999	1,150	590	460	105	25	560	0
2000	980	450	360	80	10	530	0
2001	1,030	540	405	115	20	485	5
2002	1,020	460	350	90	20	550	10
2003	1,000	440	340	85	15	550	10

Table 13. **HAY:** Stocks on Farms, New York, 1994-2003

Crop Year	Total production	Stocks Following Harvest			
		December 1		May 1	
		Stocks	Percent of production	Stocks	Percent of production
	<i>1,000 tons</i>	<i>1,000 tons</i>	<i>Percent</i>	<i>1,000 tons</i>	<i>Percent</i>
1994	3,961	2,377	60	594	15
1995	3,448	2,069	60	552	16
1996	3,468	2,254	65	555	16
1997	3,444	1,998	58	344	10
1998	3,110	1,990	64	435	14
1999	2,975	1,900	64	385	13
2000	3,075	2,280	74	625	20
2001	3,576	2,250	63	600	17
2002	3,615	2,236	62	520	14
2003	3,680	2,430	66	552	15

NEW YORK FEED GRAIN DEFICIT IN 2003

New York feed grain production (corn, oats, barley) in 2003 was 16 percent above production in 2002, but 8 percent below the 10 year average. The quantity of grain fed during 2003 decreased 2 percent from a year earlier and was 3 percent below the 10 year average. The decreases in grain fed are primarily attributed to a reduced number of dairy cows in the state on average during the year when compared to 2002 and the 10 year average number of cows. The increase in grain production from a year earlier is primarily due to a record high yield for corn, while the difference from the 10 year average is because of a downward trend in acres of corn harvested for grain.

Feed grain produced in 2003 met 75 percent of the State's feeding requirements. The feed grain deficit fluctuates widely depending primarily on the level of corn produced. Over the past ten years, New York farmers have produced

on average 79 percent of the feed needed for the dairy, livestock, and poultry industries in the state.

Table 14. **HAY:** Stocks on Farms, New York, 1994-2003

Year	Quantity Produced	Quantity Fed	Quantity of Deficit
	<i>1,000 tons</i>		
1994	2,064	2,398	334
1995	1,994	2,342	348
1996	1,975	2,381	406
1997	2,075	2,367	292
1998	2,099	2,328	229
1999	1,901	2,278	376
2000	1,443	2,378	935
2001	1,844	2,309	465
2002	1,469	2,321	851
2003	1,707	2,269	562